

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2005/050407A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61N1/39

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| Y | US 5 662 690 A (COLE ET AL) 2 September 1997 (1997-09-02) cited in the application the whole document In particular column 3, lines 17-42; figures 1,2 column 4, line 65 - column 5, line 35 | 1-15,17, 18 |
| Y | US 2003/055478 A1 (LYSTER THOMAS D ET AL) 20 March 2003 (2003-03-20) cited in the application | 1-15,17, 18 |
| X | paragraphs '0014!, '0021!, '0027! paragraphs '0124! - '0127!; figure 4 paragraphs '0158! - '0169!; figures 12-14 paragraphs '0242! - '0246! claim 164 -/- | 16 |

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

18 May 2005

Date of mailing of the international search report

25/05/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Loveniers, K

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2005/050407

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| A | US 2003/216785 A1 (EDWARDS D. CRAIG ET AL) 20 November 2003 (2003-11-20) paragraph '0031! paragraphs '0034! - '0036! paragraphs '0043! - '0046!; figure 12 | 1-18 |
| A | US 5 792 190 A (OLSON ET AL) 11 August 1998 (1998-08-11) the whole document in particular column 3, lines 37-46; figures 2,5 column 5, line 3 - column 6, line 34 | 1-18 |
| Y | US 2003/028219 A1 (POWERS DANIEL J ET AL) - 6 February 2003 (2003-02-06) paragraph '0030! paragraphs '0041! - '0043!; figure 5 paragraph '0073!; figure 14 | 7-9 |
| Y | US 5 993 219 A (BISHAY ET AL) 30 November 1999 (1999-11-30) cited in the application column 3, lines 42-66; figures 2,3 | 14,18 |
| Y | US 2002/143366 A1 (HERLEIKSON EARL CLARK) 3 October 2002 (2002-10-03) paragraphs '0009! - '0012! paragraphs '0053! - '0059! | 10,11 |
| A | US 2003/036044 A1 (PASTRICK JOHN J ET AL) 20 February 2003 (2003-02-20) the whole document in particular paragraphs '0019! - '0021!, '0024! | 1-18 |
| A | GB 2 386 071 A (* IXA MEDICAL PRODUCTS LLP) 10 September 2003 (2003-09-10) abstract page 3, line 3 - page 4, line 23 | 1-18 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2005/050407

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|---|----|---------------------|---|--|
| US 5662690 | A | 02-09-1997 | US 5611815 A AU 4417496 A WO 9617652 A1 | 18-03-1997 26-06-1996 13-06-1996 |
| US 2003055478 | A1 | 20-03-2003 | NONE | |
| US 2003216785 | A1 | 20-11-2003 | AU 2003243211 A1 CA 2485750 A1 EP 1503825 A2 WO 03097161 A2 | 02-12-2003 27-11-2003 09-02-2005 27-11-2003 |
| US 5792190 | A | 11-08-1998 | DE 69628378 D1 DE 69628378 T2 EP 0756878 A2 US 5645571 A US 5797969 A | 03-07-2003 27-11-2003 05-02-1997 08-07-1997 25-08-1998 |
| US 2003028219 | A1 | 06-02-2003 | CN 1547494 A EP 1412027 A1 WO 03009895 A1 US 2004215246 A1 | 17-11-2004 28-04-2004 06-02-2003 28-10-2004 |
| US 5993219 | A | 30-11-1999 | NONE | |
| US 2002143366 | A1 | 03-10-2002 | CN 1460030 A EP 1372784 A2 WO 02076549 A2 JP 2004534566 T | 03-12-2003 02-01-2004 03-10-2002 18-11-2004 |
| US 2003036044 | A1 | 20-02-2003 | US 2004115607 A1 | 17-06-2004 |
| GB 2386071 | A | 10-09-2003 | AU 2003212519 A1 EP 1483015 A1 WO 03076005 A1 | 22-09-2003 08-12-2004 18-09-2003 |